

Intersection Delay Study - Field Sheet

Request No.:
Job No.: 302-385.00

Path: L:\TRAFFIC\302385\11\

Location: DE 52 @ Owl's Nest Road
Date: 5/12/2005
Direction: EB

Weather: warm and clear
Recorder: SSG
Start Time: 7:15
(Military)

Location Characteristics:

Number Of Lanes :	1	Turning Lanes	0
Number Of Pedestrians:	0	Parking	No
Traffic Control Devices :	SS	Transit Stop (Y/N)	No
Type of Delay (Fixed/ Operational):			

Time Interval (hh:mm): 0:01

No.	Begin	End	Total Number of Vehicles Stopped In Approach At Time:				Approach Volume:	
			0 SEC+	15 SEC +	30 SEC+	45 SEC+	Number Stopped	Number not Stopped
1	7:15	7:16	0	0	0	1	1	1
2	7:16	7:17	1	0	1	0	1	0
3	7:17	7:18	0	1	1	2	2	0
4	7:18	7:19	1	1	1	1	0	0
5	7:19	7:20	1	1	0	1	2	1
6	7:20	7:21	1	1	0	0	2	0
7	7:21	7:22	0	1	0	0	0	0
8	7:22	7:23	1	0	0	0	1	0
9	7:23	7:24	0	0	0	0	0	0
10	7:24	7:25	0	0	3	3	3	1
11	7:25	7:26	2	1	1	1	2	0
12	7:26	7:27	1	0	1	2	2	0
13	7:27	7:28	3	2	1	3	4	0
14	7:28	7:29	2	3	3	1	2	0
15	7:29	7:30	1	0	0	0	0	3
SUBTOTAL			14	11	12	15	22	6
TOTAL			52				28	

Total Delay = Total Number Stopped X Sampling Interval
= 52 X 15 = 780 Veh-Sec/ 3600 = 0.22 Veh - Hr

Average Delay Per Stopped Vehicle = Total Delay / Number of Stopped Vehicles
= 780 / 22 = 35.5 Sec

Average Delay Per Approach Vehicle = Total Delay / Approach Volume
= 780 / 28 = 27.9 Sec

Percent of Vehicles Stopped = Number of Stopped Vehicles / Approach Volume
= 22 / 28 = 0.8

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Location: DE 52 @ Owl's Nest Road
Date: 5/12/2005
Direction: EB

Weather: warm and clear
Recorder: SSG
Start Time: 0
(Military)

Location Characteristics:

Number Of Lanes :	1	Turning Lanes	0
Number Of Pedestrians:	0	Parking	No
Traffic Control Devices :	SS	Transit Stop (Y/N)	No
Type of Delay (Fixed/ Operational):			

Time Interval (hh:mm): 0:01

No.	Begin	End	Total Number of Vehicles Stopped In Approach At Time:				Approach Volume:	
			0 SEC+	15 SEC +	30 SEC+	45 SEC+	Number Stopped	Number not Stopped
1	7:30	7:31	0	0	0	1	1	0
2	7:31	7:32	1	1	1	2	2	0
3	7:32	7:33	1	0	0	0	0	0
4	7:33	7:34	1	0	1	0	2	2
5	7:34	7:35	1	2	2	2	2	0
6	7:35	7:36	5	3	1	0	3	0
7	7:36	7:37	1	1	0	0	2	0
8	7:37	7:38	1	0	0	2	3	0
9	7:38	7:39	2	4	4	2	2	0
10	7:39	7:40	0	0	0	2	2	2
11	7:40	7:41	1	0	0	0	0	2
12	7:41	7:42	0	1	0	0	1	0
13	7:42	7:43	0	2	1	2	4	0
14	7:43	7:44	0	0	0	0	0	0
15	7:44	7:45	0	0	0	0	0	1
SUBTOTAL			14	14	10	13	24	7
TOTAL			51				31	

Total Delay = Total Number Stopped X Sampling Interval
= 51 X 15 = 765 Veh-Sec/ 3600 = 0.21 Veh - Hr

Average Delay Per Stopped Vehicle = Total Delay / Number of Stopped Vehicles
= 765 / 24 = 31.9 Sec

Average Delay Per Approach Vehicle = Total Delay / Approach Volume
= 765 / 31 = 24.7 Sec

Percent of Vehicles Stopped = Number of Stopped Vehicles / Approach Volume
= 24 / 31 = 0.8

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Location: DE 52 @ Owl's Nest Road
Date: 5/12/2005
Direction: EB

Weather: warm and clear
Recorder: SSG
Start Time: 0
(Military)

Location Characteristics:

Number Of Lanes :	1	Turning Lanes	0
Number Of Pedestrians:	0	Parking	No
Traffic Control Devices :	SS	Transit Stop (Y/N)	No
Type of Delay (Fixed/ Operational):			

Time Interval (hh:mm): 0:01

No.	Begin	End	Total Number of Vehicles Stopped In Approach At Time:				Approach Volume:	
			0 SEC+	15 SEC +	30 SEC+	45 SEC+	Number Stopped	Number not Stopped
1	7:45	7:46	1	3	3	3	4	0
2	7:46	7:47	3	3	4	3	1	0
3	7:47	7:48	3	2	1	0	0	0
4	7:48	7:49	2	4	5	9	9	0
5	7:49	7:50	10	10	9	8	2	0
6	7:50	7:51	8	7	5	7	4	0
7	7:51	7:52	7	7	6	4	2	0
8	7:52	7:53	2	1	0	1	1	1
9	7:53	7:54	0	0	0	0	0	1
10	7:54	7:55	1	1	0	1	2	1
11	7:55	7:56	0	0	0	0	0	1
12	7:56	7:57	1	0	0	1	2	0
13	7:57	7:58	1	2	2	1	1	0
14	7:58	7:59	0	1	1	0	1	0
15	7:59	8:00	1	0	0	0	1	0
SUBTOTAL			40	41	36	38	30	4
TOTAL			155				34	

Total Delay = Total Number Stopped X Sampling Interval
= 155 X 15 = 2325 Veh-Sec/ 3600 = 0.65 Veh - Hr

Average Delay Per Stopped Vehicle = Total Delay / Number of Stopped Vehicles
= 2325 / 30 = 77.5 Sec

Average Delay Per Approach Vehicle = Total Delay / Approach Volume
= 2325 / 34 = 68.4 Sec

Percent of Vehicles Stopped = Number of Stopped Vehicles / Approach Volume
= 30 / 34 = 0.9

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Location: DE 52 @ Owl's Nest Road
Date: 5/12/2005
Direction: EB

Weather: warm and clear
Recorder: SSG
Start Time: 6:00
(Military)

Location Characteristics:

Number Of Lanes :	1	Turning Lanes	0
Number Of Pedestrians:	0	Parking	No
Traffic Control Devices :	SS	Transit Stop (Y/N)	No
Type of Delay (Fixed/ Operational):			

Time Interval (hh:mm): 0:01

No.	Begin	End	Total Number of Vehicles Stopped In Approach At Time:				Approach Volume:	
			0 SEC+	15 SEC +	30 SEC+	45 SEC+	Number Stopped	Number not Stopped
1	8:00	8:01	0	0	0	0	0	0
2	8:01	8:02	1	1	0	0	2	0
3	8:02	8:03	1	2	1	1	2	0
4	8:03	8:04	1	1	2	2	1	0
5	8:04	8:05	2	0	0	0	0	1
6	8:05	8:06	0	1	0	0	1	0
7	8:06	8:07	0	0	0	1	1	1
8	8:07	8:08	0	0	0	0	0	0
9	8:08	8:09	0	0	1	2	2	0
10	8:09	8:10	2	2	0	0	0	0
11	8:10	8:11	3	5	9	10	11	0
12	8:11	8:12	8	6	5	4	1	0
13	8:12	8:13	5	4	3	3	2	0
14	8:13	8:14	2	2	4	2	4	0
15	8:14	8:15	0	0	0	0	0	0
SUBTOTAL			25	24	25	25	27	2
TOTAL			99				29	

Total Delay = Total Number Stopped X Sampling Interval
= 99 X 15 = 1485 Veh-Sec/ 3600 = 0.41 Veh - Hr

Average Delay Per Stopped Vehicle = Total Delay / Number of Stopped Vehicles
= 1485 / 27 = 55.0 Sec

Average Delay Per Approach Vehicle = Total Delay / Approach Volume
= 1485 / 29 = 51.2 Sec

Percent of Vehicles Stopped = Number of Stopped Vehicles / Approach Volume
= 27 / 29 = 0.9

Total Hour

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Location: DE 52 @ Owl's Nest Road
Date: 5/12/2005
Direction: EB

Weather: warm and clear
Recorder: SSG
Start Time: 7:15
(Military)

Location Characteristics:

Number Of Lanes : 1
Number Of Pedestrians: 0
Traffic Control Devices : SS
Type of Delay (Fixed/ Operational): 0
Time Interval (hh:mm): 0:15

Turning Lanes 0
Parking No
Transit Stop (Y/N) No

No	Begin	End	Total Number of Vehicles Stopped In Approach At Time:				Approach Volume:	
			0 SEC+	15 SEC +	30 SEC+	45 SEC+	Number Stopped	Number not Stopped
1	7:15	7:30	14	11	12	15	22	6
2	7:30	7:45	14	14	10	13	24	7
3	7:45	8:00	40	41	36	38	30	4
4	8:00	8:15	25	24	25	25	27	2
5	8:15	8:30						
6	8:30	8:45						
7	8:45	9:00						
8	9:00	9:15						
9	9:15	9:30						
10	9:30	9:45						
11	9:45	10:00						
12	10:00	10:15						
13	10:15	10:30						
14	10:30	10:45						
15	10:45	11:00						
SUBTOTAL			93	90	83	91	103	19
TOTAL			357				122	

$$\text{Total Delay} = \text{Total Number Stopped} \times \text{Sampling Interval}$$

$$= 357 \times 15 = 5355 \text{ Veh-Sec} / 3600 = 1.49 \text{ Veh - Hr}$$

$$\text{Average Delay Per Stopped Vehicle} = \text{Total Delay} / \text{Number of Stopped Vehicles}$$

$$= 5355 / 103 = 52.0 \text{ Sec}$$

$$\text{Average Delay Per Approach Vehicle} = \text{Total Delay} / \text{Approach Volume}$$

$$= 5355 / 122 = 43.9 \text{ Sec}$$

$$\text{Percent of Vehicles Stopped} = \text{Number of Stopped Vehicles} / \text{Approach Volume}$$

$$= 103 / 122 = 0.8$$

Total Hour

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